

10/726,011

**DRAFT**  
- 2 -**Amendments to the Claims**

Please amend Claims 1-6, 9-16, and 32-34. Please add new claims 38-43. The Claim Listing below will replace all prior versions of the claims in the application:

**Claim Listing**

1. (Currently amended) A delivery apparatus comprising:

a catheter for passage through the intestines; and

a spherically-shaped an atraumatic element releasably coupled to [[the]] a distal end tip of the catheter, the atraumatic element being releasable within the intestines after facilitating passage of the catheter therein.

2. (Currently amended) The delivery apparatus of claim 1 wherein the spherically-shaped atraumatic element is remotely releasable.

3. (Currently amended) A delivery system for placing a gastrointestinal implant device in a body comprising:

an outer sheath in the proximal portion of the delivery system for storing to store therewithin a proximal portion of the gastrointestinal implant device, the proximal portion of the gastrointestinal implant device including an anchoring device for anchoring a self-expanding sleeve anchor to anchor the device in the stomach, the outer sheath moveable relative to the sleeve anchor to release the sleeve anchor from within the outer sheath;

an inner sheath within the outer sheath, the inner sheath defining a lumen and extending distally beyond the outer sheath toward the distal end of the delivery system; a first lumen within the inner sheath for passing the outer sheath over a guidewire and a second lumen within the inner sheath for moving;

a moveable element moveable within the lumen of the inner sheath to secure the distal end of a sleeve to the inner sheath, the sleeve coupled at its proximal end to the stent to the inner sheath sleeve anchor;

10/726,011

**DRAFT**

- 3 -

~~a release mechanism to release the anchoring device from the outer sheath;~~  
a sleeve release mechanism coupled to the moveable element ~~for releasing to~~  
~~release~~ the distal end of the sleeve; and  
~~a spherical-shaped an atraumatic~~ element at the distal end of the delivery system,  
the ~~spherical-shaped atraumatic~~ element being releasably held ~~[[by]]~~ to the moveable  
element inner sheath.

4. (Currently amended) The delivery system of claim 3, wherein the moveable element is a sleeve retention wire, which exits the ~~second lumen of the inner sheath~~ and pierces the distal end of the sleeve.
5. (Currently amended) The delivery system of ~~claim 4~~ claim 3, wherein ~~the release mechanism~~ pulls the outer sheath is pulled toward ~~[[the]]~~ a proximal end of the delivery system to remove the sleeve anchor from the outer sheath ~~from the anchoring device~~.
6. (Currently amended) The delivery system of claim 3, wherein the sleeve release mechanism pulls the moveable element toward ~~[[the]]~~ a proximal end of the delivery system to release the distal end of the sleeve after the ~~anchoring device~~ sleeve anchor has been released.
7. (Withdrawn) The delivery system of claim 3, wherein a distal portion of the sleeve is stored in a pill for delivery and the distal portion of the sleeve is released from the pill by peristalsis.
8. (Withdrawn) The delivery system of claim 3, wherein a distal portion of the sleeve is stored in a dissolvable pill for delivery.
9. (Currently amended) The delivery system of claim 3, wherein the ~~spherical-shaped atraumatic~~ element is attached to an element retention wire which is held by the moveable element.

10/726,011

**DRAFT**

10. (Withdrawn—currently amended) The delivery system of claim 3, wherein the moveable element is looped through the ~~spherical-shaped~~ atraumatic element.
11. (Withdrawn—currently amended) The delivery system of claim 3, wherein ~~[[the]]~~ a distal end of the moveable element is coiled and stored within the ~~spherical-shaped~~ atraumatic element.
12. (Withdrawn—currently amended) The delivery system of claim 3, wherein the moveable element is held in an S-shaped track within the ~~spherical-shaped~~ atraumatic element.
13. (Withdrawn—currently amended) The delivery system of claim 3, wherein the ~~spherical shaped~~ atraumatic element at the distal end of the delivery system is an expandable balloon.
14. (Currently amended) The delivery system of claim 3, wherein the inner sheath includes a ~~third-another~~ lumen through which a fluid is passed to release the sleeve from the distal end of the delivery device system.
15. (Currently amended) The delivery system of claim 3 wherein the atraumatic element is remotely releasable.
16. (Currently amended) The delivery system of claim 3, wherein the sleeve release mechanism pulls the moveable element toward ~~[[the]]~~ a proximal end of the delivery system to release the ~~spherical-shaped~~ atraumatic element after the ~~anchoring device~~ sleeve anchor has been released.
17. (Withdrawn) A gastrointestinal implant device comprising:  
a flexible sleeve, open at both ends, and adapted to extend into the duodenum to limit absorption of nutrients in the duodenum; and

10/726,011

**DRAFT**

a collapsible anchor coupled to a proximal end of the sleeve, the anchor comprising two spaced apart rings of differing diameters to anchor the proximal portion of the sleeve in the stomach.

18. (Withdrawn) The gastrointestinal implant device of claim 17 wherein the rings are made from Nitinol.
19. (Withdrawn) The gastrointestinal implant device of claim 17, wherein each of the rings includes at least two stabilizing cars.
20. (Withdrawn) The gastrointestinal implant device of claim 17, wherein the ring is formed by loosely intertwined wires.
21. (Withdrawn) The gastrointestinal implant device of claim 17, wherein the rings are linked with a connecting bar.
22. (Withdrawn) The gastrointestinal implant device of claim 21, wherein the connecting bar includes extensions extending from the exterior surface of the bar for anchoring the proximal portion of the sleeve in the stomach.
23. (Withdrawn) The gastrointestinal implant device of claim 22, wherein extensions extending from the exterior surface of a proximal ring and extensions extending from the exterior surface of a distal ring are angled towards each other.
24. (Withdrawn) The gastrointestinal implant device of claim 17, wherein the anchor is covered by a proximal portion of the sleeve.
25. (Withdrawn) The gastrointestinal implant device of claim 17, wherein the interior surface of the ring is covered by the sleeve and the exterior surface of the ring is coated with polyurethane.

10/726,011

**DRAFT**  
- 6 -

26. (Withdrawn) The gastrointestinal implant device of claim 17 in combination with a catheter to insert the flexible sleeve.
27. (Withdrawn) The gastrointestinal implant device of claim 26, wherein the rings are folded in a u-shape stored in a delivery tube to insert the flexible sleeve.
28. (Withdrawn) The gastrointestinal implant device of claim 17, wherein the sleeve is impregnated with an anti-hunger hormone.
29. (Withdrawn) The gastrointestinal implant device of claim 28, wherein the anti-hunger hormone is peptide-YY.
30. (Withdrawn) The gastrointestinal implant device of claim 17, wherein the sleeve is impregnated with a drug that reduces inflammation.
31. (Withdrawn) The gastrointestinal implant device of claim 17, wherein the distance between the rings is selected to hold the pylorus open.
32. (Withdrawn—currently amended) The gastrointestinal implant device of claim 17, wherein the sleeve is formed of cast ~~polytetrafluoroethylene~~ polytetrafluoroethylene.
33. (Withdrawn—currently amended) The gastrointestinal implant device of claim 17, wherein the sleeve is formed of cast ~~fluorinated~~ fluorinated ethylene propylene with ~~polytetrafluoroethylene~~ polytetrafluoroethylene coating.
34. (Withdrawn —currently amended) The gastrointestinal implant device of claim 17, wherein the sleeve is formed of extruded ~~fluorinated~~ fluorinated ethylene propylene.

**DRAFT**

10/726,011

- 7 -

35. (Withdrawn) The gastrointestinal implant device of claim 17, wherein the sleeve is formed of extruded perfluoroalkoxy.
36. (Withdrawn) A method of treating intestinal bowel disease comprising the steps of:  
anchoring a flexible sleeve within the stomach, the sleeve open at both ends and impregnated with a drug that reduces inflammation; and  
extending the flexible sleeve into the jejunum.
37. (Withdrawn) A method of treating obesity comprising the steps of:  
anchoring a flexible sleeve within the stomach, the sleeve open at both ends and enhanced with anti-hunger hormones; and  
extending the flexible sleeve into the duodenum.
38. (New) The delivery apparatus of claim 2, wherein the atraumatic element comprises a ball.
39. (New) The delivery apparatus of claim 2, wherein the atraumatic element is spherically shaped.
40. (New) The delivery apparatus of claim 2, wherein the atraumatic element is inflatable.
41. (New) The delivery apparatus of claim 3, wherein the atraumatic element comprises a ball.
42. (New) The delivery apparatus of claim 3, wherein the atraumatic element is spherically shaped.
43. (New) The delivery apparatus of claim 3, wherein the atraumatic element is inflatable.